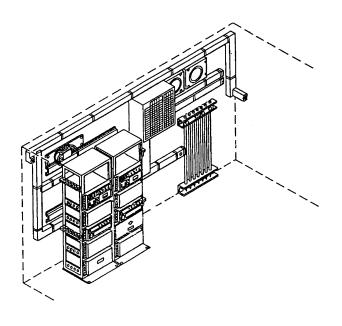
# **AN/TRC-151**



SYSTEM IDENTIFIERS						
NOMENCLATURE:	Radio Terminal Set					
SSN:	N/A					
LIN:	Q92899					
NSN:	5820-00-006-1831					
AMIM NO:	N/A					
EIC:	HAY					
FUEL TYPE:						

#### **SYSTEM DESCRIPTION**

The AN/TRC-151 Radio Terminal Set is a shelter-mounted, multichannel, communications assemblage providing secure dual 12 channel or single 24 channel radio communications. It employs a mast-mounted parabolic reflector antenna. It is capable of handling both voice and digital data, establishing extension links from corps or theater area nodes. The system is being replaced by the AN/TRC-173.

The list below identifies components associated with this weapon/materiel system.

## AN/TRC-151

LIN	NSN	NOMENCLATURE
F05376	5805-00-069-8795	CONVERTER TELEPHONE SIGNAL
K80544	6625-00-682-4464	INDICATOR STANDING WAVE
K94880	5830-00-752-5357	INTERCOMMUNICATION STAT
M84579	5805-00-884-2176	MULTIPLEXER, TD-202/U
M84608	5805-00-930-8079	MULTIPLEXER, TD-660/G
Q38299	5820-00-930-3724	RADIO SET, AN/PRC-77
R24367	5820-00-538-7555	RECEIVER RADIO, R-390/U
V31211	5805-01-217-7310	TELEPHONE SET, TA-43/PT

This summary provides an overview of FY 94 Total Army operating and support costs and other information for the weapon system. Average cost per system is displayed so the data can be used in performing analyses and cost studies. Average costs are calculated using the end item's density. NET REPARABLES represent the cost with the Major Subordinate Command (MSC) specific credit rates applied (detailed in Section 1 - Overview).

# AN/TRC-151 FY 94 TOTAL ARMY COST SUMMARY (FY 94 Constant Dollars)

48

#### **DENSITY**

NUMBER OF SYSTEMS

#### **DEPOT END ITEM MAINTENANCE (5.061)**

TOTAL \$99,034
QUANTITY COMPLETED 5
AVG COST/END ITEM \$19,806.80

#### CLASS III-POL (5.05)

#### **NOT APPLICABLE**

#### **DEPOT SECONDARY ITEM MAINTENANCE**

TOTAL \$0
QUANTITY COMPLETED 0
AVG COST/SECONDARY ITEM \$0.00

#### **CLASS V-AMMUNITION (2.11)**

#### **NOT APPLICABLE**

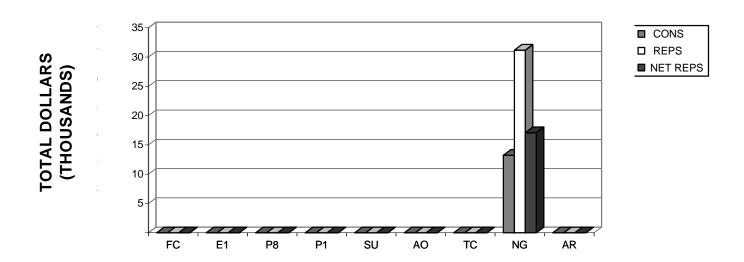
INTERMEDIATE MAINTENANCE								
	DS/GS	CIVILIAN						
MIL/CIV LABOR COST	\$482	\$0						
AVG COST/SYSTEM	\$10.04	\$0.00						
MAINTENANCE MANHOURS MMHs/SYSTEM	29 0.60	0 0.00						

#### CLASS IX MATERIEL-PARTS (5.04/5.03)

FY 94	AVG COST
<u>DOLLARS</u>	PER SYSTEM
\$13,246	\$275.96
\$17,092	\$356.08
\$30,338	\$632.04
	DOLLARS \$13,246 \$17,092

The following graph and table display FY 94 Class IX costs for consumables (CONS), reparables, (REPS), and net reparables (NET REPS) by MACOM. CONS and REPS are the total costs of requisitions recorded in the Logistic Intelligence File (LIF). NET REPS are the cost to the customer in the field and are calculated by applying an MSC-specific credit rate at the NSN level. TOTAL ARMY (TA) costs are the summation of costs across all MACOMs in the table. NET TOTAL COSTS are the sums of the costs of CONS and NET REPS. NUMBER OF SYSTEMS is the density recorded in the Continuing Balance System - Expanded (CBS-X). AVG PER SYSTEM costs are calculated by dividing the costs in NET TOTAL COSTS by the number of systems for each MACOM.

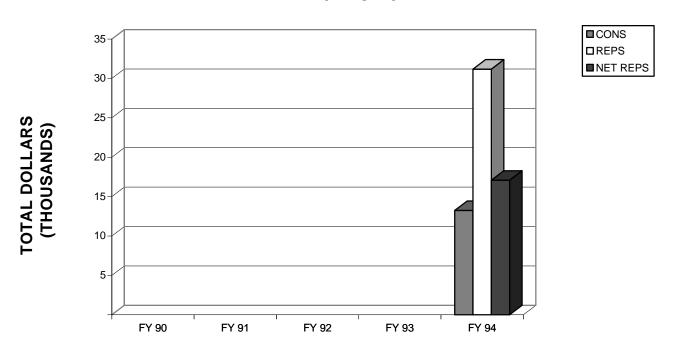
#### AN/TRC-151



	AN/TRC-151										
	FY 94 MACOM CLASS IX COSTS										
	MACOM			NET	NET TOTAL	NUMBER OF	AVG PER				
CODE	NAME	CONS	REPS	REPS	COSTS	SYSTEMS	SYSTEM				
FC	FORSCOM	0	0	0	0	0	0				
E1	USAREUR	0	0	0	0	0	0				
P8	EUSA	0	0	0	0	0	0				
P1	USARPAC	0	0	0	0	0	0				
SU	USARSO	0	0	0	0	0	0				
AO	USASOC	0	0	0	0	0	0				
TC	TRADOC	0	0	0	0	0	0				
NG	ARNG	13,246	31,192	17,092	30,338	48	632				
AR	USAR	0	0	0	0	0	0				
TA	TOTAL ARMY	13,246	31,192	17,092	30,338	48	632				

The following graph and table display FY 90-94 Class IX costs for consumables (CONS), reparables (REPS) and net reparables (NET REPS) by Total Army. The Total Army costs are a summation of all the MACOMs displayed on the previous page. CONS and REPS are the total cost of requisitions recorded in the Logistic Intelligence File (LIF). NET REPS are the cost to the customer in the field and are calculated by applying an MSC-specific credit rate at the NSN level. NET TOTAL COSTS are the sums of the costs of CONS and NET REPS. NUMBER OF SYSTEMS is the density recorded in the Continuing Balance System - Expanded (CBS-X). AVG PER SYSTEM costs are calculated by dividing the costs in NET TOTAL COSTS by the number of systems in the Total Army for the fiscal year. Blank rows indicate system was not tracked in the OSMIS database during that fiscal year.

#### AN/TRC-151



AN/TRC-151 FIVE YEAR TOTAL ARMY CLASS IX COSTS									
FISCAL			NET	NET	NUMBER OF	AVG PER			
YEAR	CONS	REPS	REPS	TOTAL COSTS	SYSTEMS	SYSTEM			
FY 90									
FY 91									
FY 92									
FY 93									
FY 94	13,246	31,192	17,092	30,338	48	632			

The Total Army Class IX costs from the previous pages are broken out by Work Breakdown Structure (WBS) in the following table. The FY 94 WBS Class IX costs for consumables (CONS) and reparables (REPS) are the total cost of requisitions recorded in the Logistic Intelligence File (LIF). The NET REPS are the cost to the customer in the field and are calculated by applying an MSC-specific credit rate at the NSN level. The TOTAL costs are a summation of all the WBS elements displayed in the table. NET TOTAL COSTS are the sum of the costs in CONS and NET REPS. NUMBER OF SYSTEMS is the density recorded in the Continuing Balance System-Expanded (CBS-X). AVG PER SYSTEM costs are calculated by dividing the costs in NET TOTAL COSTS column by the total number of systems in the Army.

	AN/TRC-151 FY 94 TOTAL ARMY WORK BREAKDOWN STRUCTURE COSTS										
				NET	NET	NUM OF	AVG PER				
WBS	NAME	CONS	REPS	REPS	TOTAL COSTS	SYSTEMS	SYSTEM				
01	SENSORS	0	0	0	0	0	0				
02	PROCESSING (ADPE)	0	0	0	0	0	0				
03	COMMUNICATIONS	11,343	31,192	17,092	28,435	48	592				
04	PERIPHERALS	0	0	0	0	0	0				
05	ENVIRON SUPPORT	279	0	0	279	48	6				
06	APPLICATIONS SFT	0	0	0	0	0	0				
07	SYSTEM SOFTWARE	0	0	0	0	0	0				
08	INT, ASSY, TEST, C/O	0	0	0	0	0	0				
09	OTHER	1,624	0	0	1,624	48	34				
	TOTAL	13,246	31,192	17,092	30,338	48	632				

The following table displays FY 90-94 Class IX costs by Work Breakdown Structure (WBS) for the Total Army. NET TOTAL COSTS are summation for all the WBS elements displayed on the previous page and are a sum of the costs of CONS and NET REPS. NUMBER OF SYSTEMS is the density recorded in the Continuing Balance System-Expanded (CBS-X). AVG PER SYSTEM costs are calculated by dividing the costs in NET TOTAL COSTS by the total number of systems in the Army for the fiscal year. Blank columns indicate system was not tracked in the OSMIS database during that fiscal year.

	AN/TRC-151 FIVE YEAR TOTAL ARMY WORK BREAKDOWN STRUCTURE COSTS									
		FY 90	FY 91	FY 92	FY 93	FY 94				
		NET TOTAL								
WBS	NAME	COSTS	COSTS	COSTS	COSTS	COSTS				
01	SENSORS					0				
02	PROCESSING (ADPE)					0				
03	COMMUNICATIONS					28,435				
04	PERIPHERALS					0				
05	ENVIRON SUPPORT					279				
06	APPLICATIONS					0				
07	SYSTEM SOFTWARE					0				
80	INT, ASSY, TEST, C/O					0				
09	OTHER					1,624				
	TOTAL					30,338				
	NUM OF SYSTEMS					48				
	AVG PER SYSTEM					632				

AN/TRC-151 TOP 40 COST DRIVERS CLASS IX CONSUMABLES (NON-DLRs)

	NSN	NOMENCLATURE	WBS	MRC	ARI	MATCAT	FY 94 AMDF UNIT PRICE	FY 94 QTY
1.	5995001440228	CABLE ASSEMBLY,RADI	03J	Н		Q2200	1,031.00	2.48
2.	5915004658941	FILTER ASSEMBLY,ELE	03E	Н		G21RX	1,027.00	1.41
3.	5998004598581	CIRCUIT CARD ASSEMB	03J	F		G21RG	343.00	3.50
4.	5998001372333	CIRCUIT CARD ASSEMB	03J	Z		G22RG	209.00	5.23
5.	6135010342239	BATTERY, NONRECHARG	09	Z		G22T7	43.35	23.71
6.	5995009352686	CABLE ASSEMBLY,POWE	03J	Z		Q2200	227.15	2.09
7.	5805010125444	POWER SUPPLY	03J	Н		G21RG	566.00	0.80
8.	5985009859024	ANTENNA	03C	0		G21RT	254.00	1.68
9.	5915004658942	FILTER ASSEMBLY,ELE	03E	Н		G21RX	457.00	0.57
10.	5998001407325	CIRCUIT CARD ASSEMB	03J	Z		G22RX	173.00	1.25
11.	5998008547010	CIRCUIT CARD ASSEMB	03J	Z		Q2200	171.19	1.14
12.	8130006561090	REEL,CABLE	09	Z		G22RL	84.82	2.21
13.	5975011225929	PLATE,WALL,ELECTRIC	03J	Z		Q2200	175.35	1.00
14.	6130004660158	POWER SUPPLY	05A	Н		G21RL	463.00	0.34
15.	5998004598577	CIRCUIT CARD ASSEMB	03J	F		G21RG	202.00	0.71
16.	5998004598578	CIRCUIT CARD ASSEMB	03J	F		G21RX	222.00	0.64
17.	5998004598585	CIRCUIT CARD ASSEMB	03J	F		G21RX	220.00	0.63
18.	5895009303729	RECEIVER SUBASSEMBL	03E	Z		G22RA	71.53	1.91
19.	5820009303728	OSCILLATOR ASSY	03E	Z		G22RS	114.00	1.08
20.	6150004951214	LEAD,ELECTRICAL	09	Z		J2200	21.76	5.22
21.	5965008923850	HANDSET& H-156/U	03A	Z		Q2200	197.01	0.56
22.	2540008926243	LADDER, VEHICLE BOAR	05C	Z		J2200	113.94	0.96
23.	5998001372331	CIRCUIT CARD ASSEMB	03J	Z		G22RG	252.00	0.43
24.	4030011156660	SHACKLE	09	Z		J2200	3.94	27.00
_	5998005035647	CIRCUIT CARD ASSEMB	03J	Н		G21RX	215.00	0.49
26.	5975002245260	ROD GROUND MX-148/G	03J	Z		Q2200	23.42	4.32
27.	5820008562728	ANTENNA ELEMENT	03C	Z		G22RT	21.82	4.35
28.	5965000433463	HANDSET H-250/U	03A	Z		G227B	35.53	2.42
29.	5895009303736	AMPLIFIER RADIO FREQ	03E	Z		G22RS	44.76	1.79
30.	5895009303735	AMPLIFIER RADIO FREQ	03E	Z		G22RS	49.45	1.44
31.	5820009733603	AMPLIFIER, INTERMEDI	03E	Z		G22RA	40.71	1.51
32.	5998008556004	PRINTED WIRING BOAR	03J	Z		G22RG	124.00	0.48
33.	5805007526166	CASE, TELEPHONE SET	03J	Z		Q22RH	26.13	2.16
34.	5935008230308	ADAPTER, CONNECTOR	09	Z		Q22TD	3.02	18.19
35.	5920009267445	FUSE CARTRIDGE	03J	Z		Q23RX	1.37	38.46
36.	5895009303734	AMPLIFIER AUDIO FREQ	03E	Z		G22RS	30.79	1.64
37.	5895001222640	RECEIVER-TRANSMITTE	03E	Z		G22RA	146.00	0.32
	5910009303873	CAPACITOR VAR CERAM	03E	Z		Q22RA	121.05	0.36
	5895009303740	TRANSMITTER FREQ	03E	Z		G22RS	52.35	0.75
40.	5935009731859	CONNECTOR,PLUG,ELEC	03E	Z		Q22RA	10.41	3.79

NUMBER OF SYSTEMS 48

NOTE: ROWS MAY NOT CALCULATE DUE TO ROUNDING

# AN/TRC-151 CONSUMABLES (NON-DLRs)

_	AVERAGE COS	ST	AVERAGE QUANTITY	FIVE	FY 90-94 YEAR AVERAGE
EXTENDED COST	PER		PER		
(QTY * UNIT PRICE)	SYSTEM		100 SYSTEMS	QTY	EXTENDED COST
2,557	53.27		5.1667		
1,448	30.17		2.9375		
1,201	25.02		7.2917		
1,093	22.77		10.8958		
1,028	21.42		49.3958		
475	9.90		4.3542		
453	9.44		1.6667		
427	8.90		3.5000		
260	5.42		1.1875		
216	4.50		2.6042		
195	4.06		2.3750		
187	3.90		4.6042		
175	3.65		2.0833		
157	3.27		0.7083		
143	2.98		1.4792		
142	2.96		1.3333		
139	2.90		1.3125		
137	2.85		3.9792		
123	2.56		2.2500		
114	2.38		10.8750		
110	2.29		1.1667		
109	2.27		2.0000		
108	2.25		0.8958		
106	2.21		56.2500		
105	2.19		1.0208		
101	2.19		9.0000		
95	1.98		9.0625		
86	1.79		5.0417		
80	1.79				
			3.7292		
71	1.48		3.0000		
61	1.27		3.1458		
60	1.25		1.0000		
56	1.17		4.5000		
55	1.15		37.8958		
53	1.10		80.1250		
50	1.04		3.4167		
47	0.98		0.6667		
44	0.92		0.7500		
39	0.81		1.5625		
39	0.81		7.8958		
12,145	91.7%	TOP 40			
1,101	8.3%	OTHERS			
=========	2.270				
13,246					

# AN/TRC-151 COST DRIVERS CLASS IX REPARABLES (DLRs)

						FY 94 AMDF	UNIT PRICE	FY 94
NSN	NOMENCLATURE	WBS	MRC	ARI	MATCAT	W/O CREDIT	W/CREDIT	QTY
	<u> </u>			<u> </u>				
1. 5820010815407	AMPLIFIER-CONVERTE	03A	D	D	G21RF	12,553.00	6,879.04	1.50
2. 5820011714850	AMPLIFIER-FREQUEN(	03A	D	E	G21RF	9,794.00	5,367.11	1.03
3. 5998001372329	CIRCUIT CARD ASSEN	03J	D		G21RX	1,074.00	588.55	1.23
4. 5820004978418	AMPLIFIER,INTERMED	03A	L	С	G21RF	360.00	197.28	0.97
5. 5820009061115	MATCHING UNIT-BASE	03E	D		G21RT	178.00	97.54	1.86
6. 5805009304838	CONVERTER SUBASSI	03J	L		G21RG	187.00	102.48	1.00
7. 5820008793000	AMPLIFIER ASSY	03A	L		G21RF	239.00	130.97	0.36

NUMBER OF SYSTEMS

48

NOTE: ROWS MAY NOT CALCULATE DUE TO ROUNDING

# AN/TRC-151 REPARABLES (DLRs)

EXTENDED COST	AVERAGE COST (W/CREDIT)	AVERAGE QUANTITY	FY 90-94 FIVE YEAR AVERAGE		
(W/CREDIT)	PER	PER	a=1/	EXTENDED COST	
(QTY * UNIT PRICE)	SYSTEM	100 SYSTEMS	QTY	(W/CREDIT)	
10,319	214.98	3.1250			
5,528	115.17	2.1458			
724	15.08	2.5625			
191	3.98	2.0208			
181	3.77	3.8750			
102	2.13	2.0833			
47	0.98	0.7500			

17,092 100.0% COST DRIVERS
0 0.0% OTHERS
17,092

The following table summarizes FY 94 Depot Maintenance Costs from the Master File Maintenance (MFM). Depot maintenance costs are displayed by cost elements for end item maintenance and secondary item maintenance. The OTHER cost columns represent work categories such as progressive maintenance, renovation, and fabrication/manufacture. For reporting purposes, TRANSPORTATION costs recorded in the World Aircraft Logistics Conference (WALC)/Special Aircraft Assignment Mission (SAAM) records are shown in the OTHER maintenance category.

AN/TRC-151 FY 94 DEPOT MAINTENANCE COSTS										
COST		END I	TEM			SECONDARY	TITEM			
ELEMENTS		MAINTE	NANCE			MAINTENA	NCE			
	REPAIR	OVERHAUL	OTHER	MODIFICATION	REPAIR	OVERHAUL	OTHER			
CIVILIAN LABOR	0	13,453	0	0	0	0	0			
MILITARY LABOR	0	0	0	0	0	0	0			
MATERIEL	0	769	0	0	0	0	0			
TRANSPORTATION	0	0	0	0						
OVERHEAD	0	84,812	0	0	0	0	0			
CONTRACT	0	0	0	0	0	0	0			
OTHER	0	0	0	0	0	0	O			
TOTAL	0	99,034	0	0	0	0	0			
QTY COMPLETED	0	5	0	0	0	0	C			
AVG COST	0	19,807	0	0	0	0	0			

The table below summarizes FY 94 Intermediate Maintenance Costs from the Work Order Logistics File (WOLF) data. The labor hours and labor costs for Direct Support/General Support Intermediate Maintenance (DS/GS) and Civilian Maintenance are displayed by MACOM and Total Army. MACOM DS/GS LABOR COSTS are calculated by multiplying MACOM labor hours by the Army Manpower Cost System (AMCOS) E-5 composite standard rate (\$16.61). CIVILIAN LABOR COSTS are a summation from the source data.

AN/TRC-151								
FY 94 INTERMEDIATE MAINTENANCE COSTS								
	DS/GS LABOR	DS/GS	CIVILIAN	CIVILIAN	CIVILIAN LABOR			
MACOM	HOURS	LABOR COSTS	LABOR HOURS*	LABOR COSTS <sup>*</sup>	COST/HOUR			
FORSCOM	0	0	0	0	0.00			
USAREUR	0	0						
EUSA	0	0						
USARPAC	0	0						
USARSO	0	0						
USASOC	0	0						
TRADOC	0	0	0	0	0.00			
ARNG	29	482						
USAR	0	0						
TOTAL ARMY	29	482	0	0	0.00			

<sup>\*</sup>TRADOC LABOR HOURS and LABOR COSTS include contractor hours and costs.

The following table summarizes FY 90-94 Depot Maintenance Costs. The depot maintenance data are recorded in MFM. FY 94 costs are a summation of the cost elements displayed on the previous page. END ITEM OVERHEAD costs were not separately identified prior to FY 92. TRANSPORTATION costs are recorded in the WALC/SAAM records. Blank columns indicate system was not tracked in the OSMIS database during that fiscal year.

AN/TRC-151 FIVE YEAR DEPOT MAINTENANCE COSTS										
COST ELEMENTS					SECONDARY ITEM MAINTENANCE					
	FY 90	FY 91	FY 92	FY 93	FY 94	FY 90	FY 91	FY 92	FY 93	FY 94
CIVILIAN LABOR					13,453					0
MILITARY LABOR					0					0
MATERIEL					769					0
TRANSPORTATION					0					
OVERHEAD					84,812					0
CONTRACT					0					0
OTHER					0					0
TOTAL					99,034					0
QTY COMPLETED					5					0
AVG COST					19,807					0

The table below sumarizes FY 90-94 Intermediate Maintenance Costs from WOLF. The fiscal year total costs for Direct/General Support Intermediate Maintenance (DS/GS) and Civilian Maintenance are displayed by MACOM and Total Army. MACOM DS/GS labor costs are calculated by multiplying MACOM labor hours by the Army Manpower Cost System (AMCOS) E-5 composite standard rate. DS/GS COST PER HR is the E-5 composite standard rate in FY 94 constant dollars. CIVILIAN LABOR COSTS are a summation from the source data. Blank columns indicate system was not tracked in the OSMIS database during that fiscal year.

AN/TRC-151 FIVE YEAR INTERMEDIATE MAINTENANCE COSTS										
	DIRECT/GENERAL SUPPORT INTERMEDIATE MAINTENANCE (DS/GS)						CIVILIAN	(OD ()		
144.0014						E)/ 00		ITENANCE	<u>,`                                    </u>	E)/ 0.4
MACOM	FY 90	FY 91	FY 92	FY 93	FY 94	FY 90	FY 91	FY 92	FY 93	FY 94
FORSCOM					0					0
USAREUR					0					
EUSA					0					
USARPAC					0					
USARSO					0					
USASOC					0					
TRADOC					0					0
ARNG					482					
USAR					0					
TOTAL ARMY					482					0
LABOR HRS					29					0
COST PER HR					16.61					0.00

The following list shows the FY 94 Secondary Item - Rebuilds/Overhauls Cost Drivers recorded in the MFM. AVG COST TO REBUILD/OVERHAUL is calculated by dividing the costs in FY 94 TOTAL COST TO REBUILD/OVERHAUL by FY 94 QTY COMPLETED.

AN/TRC-151 FY 94 DEPOT SECONDARY ITEM MAINTENANCE - REBUILDS/OVERHAULS COST DRIVERS								
NSN	NOMENCLATURE	FY 94 AMDF PRICE	FY 94 TOTAL COST TO REBUILD/ OVERHAUL	FY 94 QTY COMPLETED	AVG COST TO REBUILD/ OVERHAUL			
	N	O DATA AVAI	LABLE					

The following list shows the FY 94 Secondary Item Maintenance - Repairs Cost Drivers recorded in MFM. AVG COST TO REPAIR is calculated by dividing the costs in FY 94 TOTAL COST TO REPAIR by FY 94 QTY COMPLETED.

AN/TRC-151 FY 94 DEPOT SECONDARY ITEM MAINTENANCE - REPAIRS COST DRIVERS							
NSN	NOMENCLATURE	FY 94 AMDF PRICE	FY 94 TOTAL COST TO REPAIR	FY 94 QTY COMPLETED	AVG COST TO REPAIR		
	N	O DATA AVAI	LABLE				

The following list shows the FY 90-94 Secondary Item - Rebuild/Overhauls Cost Drivers recorded in MFM. These five year Cost Drivers were revised from previous years' reports, see Appendix A, Section 13 for further explanation. AVG COST TO REBUILD/OVERHAUL is calculated by dividing the costs in FY 90-94 TOTAL COST TO REBUILD/OVERHAUL by FY 90 -94 QTY COMPLETED.

AN/TRC-151 FIVE YEAR DEPOT SECONDARY ITEM MAINTENANCE - REBUILDS/OVERHAULS COST DRIVERS								
NSN	NOMENCLATURE	FY 94 AMDF PRICE	FY 90-94 TOTAL COST TO REBUILD/ OVERHAUL	FY 90-94 QTY COMPLETED	AVG COST TO REBUILD/ OVERHAUL			
	N	O DATA AVA	ILABLE					

The following list shows the FY 90-94 Secondary Item - Repairs Cost Drivers recorded in MFM. These five year Cost Drivers were revised from previous years' reports, see Appendix A, Section 13 for further explanation. AVG COST TO REPAIR is calculated by dividing the costs in FY 90-94 TOTAL COST TO REPAIR by FY 90-94 QTY COMPLETED.

AN/TRC-151 FIVE YEAR DEPOT SECONDARY ITEM MAINTENANCE - REPAIRS COST DRIVERS							
NSN	NOMENCLATURE	FY 94 AMDF PRICE	FY 90-94 TOTAL COST TO REPAIR	FY 90-94 QTY COMPLETED	AVG COST TO REPAIR		
	N	O DATA AVAI	LABLE				

## **CHOOSE A VOLUME FOR MORE SYSTEMS**



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